

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001322**Date Inspected:** 20-Oct-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 2130**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 6BW, Sub-Assemblies, Bikeway Brackets**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Attend to report writing and email Incident Report to SMR.

Sub-Assemblies

Suspender brackets which were repaired via abrasive blasting from trial assembly damages were inspected for cleanliness for application of Finish coat Interfine 979. Surfaces were properly prepared for application and ZPMC re-applied finish coat after repairing the masked areas from damages to the masking to protect the Faying surfaces.

Bikeway Brackets

Bikeway brackets were repaired and application of Interfine 979 was performed concurrent with the Suspender Brackets.

Cross Beam Sub-Assemblies

Miscellaneous sections for the Cross Beams were top-coated with Interfine 979 concurrent with the Suspender Brackets and Bikeway brackets, also one Traveler Bracket was Top-coated. All Faying surfaces were masked to prevent overspray damages.

Reviewed AISC SPE with ASMR Jim Simonis for MFSQA and also Paint Sampling protocols.

OBG 6BW

Internal base metal surfaces were inspected after abrasive blasting operations and rejected. SSPC SP-10 was not achieved and grinding of sharp edges and burrs was in process, rust was visible and areas were marked for

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re-blasting. Also with this Notification for Inspection OBG 6CE was to be inspected but was cancelled due to no work being performed. A second inspection was performed and also rejected on OBG 6BW due to non-compliance with SSPC SP-10 and a third Inspection was performed and rejected also for non-compliance with SSPC SP-10, the fourth Inspection SSPC SP-10 was achieved and Interzinc 22 applied. An Incident Report was generated for application of Interzinc 22 Batch# KK0104PV and KK1016PV due to coating not being sampled prior to use. ZPMC relocated this segment to paint shop #2 to complete the application of undercoat on the internal floor surfaces.

East Tower Lift #2

ZPMC abrasive blasted external base metal surfaces and applied a “shop primer” to blasted areas. No De-greasing was performed prior to blasting operations and improper coating was applied. This work was done to enhance the appearance for a ZPMC upper management individual which was due to arrive onsite. ZPMC and ABF understand that this work will be re done and the proper protocols performed.

Note: International Protective Coatings Technical service representative Mr. Peng Zili informed Caltrans QA Lumley that the paint samples for Batch# KK0104PV AND KK0106PV would be ready on 10-21-09.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

Caltrans QA Lumley informed ABF QA Bill Oak that unsampled Interzinc 22 currently being applied would generate an Incident Report under Section 91 of the Standard Specification.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-7549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
